International application No.

A. CLASSIFICATION OF SUBJECT MATTER	PCT/JP2005/003424			
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> B01J23/656, 35/10, 37/08, C	07B61/00, C07C1/04, 11/10, C10L3/00			
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by Int.Cl <sup>7</sup> B01J21/00-38/74, C07C1/04				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005  Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005				
Electronic data base consulted during the international search (name of CA (STN)	f data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category* Citation of document, with indication, where a				
Y JP 2003-003174 A (Japan Nat: et al.), 08 January, 2003 (08.01.03), Claims 1, 2; Par. No. [0001] & EP 1408099 A1 & US & WO 02/102932 A1				
Y JP 2003-512925 A (Exxon Reserve), 08 April, 2003 (08.04.03), Claims 1, 12; Par. Nos. [000 examples & WO 01/032305 A1 & US	1], [0004], [0005];			
X Further documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination.			
Date of the actual completion of the international search 10 May, 2005 (10.05.05)	Date of mailing of the international search report 24 May, 2005 (24.05.05)			
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer			
Facsimile No. Telephone No.  Orm PCT/ISA/210 (second sheet) (January 2004)				

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		PCT/JP20	005/003424
C (Continuation).	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
У	L. FAN et al., Supercritical Phase Fische Tropsch Synthesis: Catalyst Pore-Size Eff AIChE Journal, 1992, Vol.38, No.10, pages 1639 to 1648, full text	fect,	1-7
Y	JP 2003-024786 A (Nippon Oil Corp.), 28 January, 2003 (28.01.03), Claims 1, 2 (Family: none)	i	1-7
P,A	<pre>JP 2004-196874 A (Japan National Oil Coret al.), 15 July, 2004 (15.07.04), (Family: none)</pre>	<b>p</b> .	1-14
A	<pre>JP 59-046133 A (Yoshinobu TAKEGAMI et al 15 March, 1984 (15.03.84),   (Family: none)</pre>	.),	1-14
	·		

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reason.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	sons:		
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to sucl extent that no meaningful international search can be carried out, specifically:	ı an		
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.2	J(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:  Claim 1 describes, as a catalyst for producing hydrocarbons which carrier containing a manganese oxide and an aluminum oxide and, carried the a ruthenium compound, two catalysts of 1) a catalyst prepared by trea catalyst with an alkali and then firing the resulting catalyst in ai 2) a catalyst prepared by using an aluminum oxide having a specific distribution.  These two catalysts have a common matter of "a catalyst for proding hydrocarbons which has a carrier containing a manganese oxide and an aluminum oxide and, carried thereon, a ruthenium compound", but the search rev (continued to extra sheet)	reon, ating r and pore ucing minum		
1. X As all required additional search fees were timely paid by the applicant, this international search report covers all search claims.	chable		
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.	t of		
3. As only some of the required additional search fees were timely paid by the applicant, this international search report only those claims for which fees were paid, specifically claims Nos.:	covers		
<ul> <li>4.  No required additional search fees were timely paid by the applicant. Consequently, this international search reported to the invention first mentioned in the claims; it is covered by claims Nos.:</li> <li>Remark on Protest</li></ul>	rt is		

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# Continuation of Box No.III of continuation of first sheet(2)

that said matter is disclosed in the document JP 2003-003174 A Japan National Oil Corp. et al. (and another)), 08 January, 2003 (08.01.03), claim 1, and therefore, is not novel clearly.

As a result, the above common matter falls within the scope of the prior art, and therefore, is not a special technical feature in the meaning of PCT Rule 13.2, the second sentence.

Since there is no other common matter which is considered to be a special technical feature in the meaning of PCT Rule 13.2, the second sentence, the technical relationship in the meaning of PCT Rule 13.2 cannot be found between the above two catalysts.

Accordingly, it is clear that claim 1 does not comply with the requirement of unity of invention.

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